

**2002**  
**Virginia Department of Transportation**  
**Daily Traffic Volume Estimates**  
**Including Vehicle Classification Estimates**  
where available

**Special Locality Report**  
**129**  
City of Salem

Prepared By  
**Virginia Department of Transportation**  
**Mobility Management Division**

In Cooperation With  
**U.S. Department of Transportation**  
**Federal Highway Administration**

Virginia Department of Transportation  
Mobility Management Division  
Traffic Monitoring Section

The Virginia Department of Transportation (VDOT) conducts a program where traffic count data are gathered from sensors in or along streets and highways and other sources. From these data, estimates of the average number of vehicles that traveled each segment of road are calculated. VDOT periodically publishes booklets listing these estimates.

One of these booklets, titled "Average Daily Traffic Volumes with Vehicle Classification Data, on Interstate, Arterial and Primary Routes" includes a list of each Interstate and Primary highway segment with the estimated Annual Average Daily Traffic (AADT) for that segment. AADT is the total annual traffic estimate divided by the number of days in the year. This booklet also includes information such as estimates of the percentage of the AADT made up by 6 different vehicle types, ranging from cars to double trailer trucks; estimated Annual Average Weekday Traffic (AAWDT), which is the number of vehicles estimated to have traveled the segment of highway during a 24 hour weekday averaged over the year; as well as Peak Hour and Peak Direction factors used by planners to formulate design criteria.

In addition to the Primary and Interstate publication, one hundred books are published periodically, one for each of 100 areas across the state defined by VDOT for record-keeping purposes. These books include traffic volume estimates for roads within the county, cities, and towns within the area. These books are titled "Daily Traffic Volumes Including Vehicle Classification Estimates, where available; Jurisdiction Report numbers 00 through 99".

Also available are a number of reports summarizing the average Vehicle Miles Traveled (VMT) in selected jurisdictions and other categories of highways. There are many different ways to present traffic volume summary information. Because the user determines the value of each presentation, the reports have been redesigned based on user requests and feedback. The people at VDOT Mobility Management's Traffic Monitoring Section who produce these books welcome requests for other helpful ways of presenting the summary information.

A compact disc (CD) is available that includes files in the Adobe® Portable Document Format (PDF) that can be displayed, searched, and printed using common desktop computer equipment. The CD includes the publications described above as well as a number of other reports, including specialized VMT summaries and smaller AADT reports for each city and town separately.

## **Publication Notes**

### **Parallel Roads**

For road inventory and management purposes, some roadways are counted separately by direction and have separately published traffic estimates for each direction of travel. Examples of such roadways are the interstate system and routes with separated facilities and (usually) one-way traffic facilities in urban areas. In these publications, they are referred to as parallel roads. As a convenience for the users of the publication, the listing for segments of roads with parallel segments are published with both the traffic estimates for their own direction of travel (e.g. I-95 Northbound) as well as the estimate of the total of all traffic on the same route including parallel roadways (all directions of I-95). The publication will have a “Combined Traffic Estimates for Parallel Roadways on this Route” or “Combined Traffic” identifiers for the combined direction of travel estimates.

Roadways such as I-395 with a North segment, a South segment and a separate Reversible lane segment will have the estimate for more than two parallel roadways included in the entire combined traffic estimate.

Some routes have very complicated paths through cities and towns. These parallel paths may be too complex to allow a relationship between nearby sections of the opposite direction on the same route. In this case, to indicate that the traffic estimates for such a road segment may not include all directions of traffic on that route, the line that would list the combined values will indicate “NA” for not available.

---

VDOT’s traffic monitoring program includes more than 100,000 segments of roads and highways ranging from several mile sections of Interstate highways to very short sections of city streets. Due to problems experienced obtaining some traffic count data, and the level of quality necessary to maintain confidence in the data, no estimate is currently available for some segments of roadway. These segments are included in the publications indicating “NA” for not available. It is the intention of the VDOT’s Mobility Management Traffic Monitoring group to obtain the data necessary and to report traffic volume estimates on all road segments included in these publications.

Many of the road segments in this program are local secondary roads. The amount and detail of data collected on these roads are not as great as the data collected on higher volume roads. The vehicle classification, average weekday traffic volumes, and the theoretical design hour traffic volumes are not calculated for these roads. The publications indicate “NA” for the information that is not available.

This publication is based on a traffic monitoring program initiated in 1997. Because the data collection techniques and statistical evaluation processes are different than those used in previous years, comparison with previous publications may be misleading.

## Glossary of Terms:

**Route:** The Route Number assigned to this segment of roadway with the master inventory route number if this is an overlapping route, with official street or highway name if available.

**Length:** Length of the traffic segment in miles.

**AADT:** Annual Average Daily Traffic. The estimate of typical daily traffic on a road segment for all days of the week, Sunday through Saturday, over the period of one year.

### QA: Quality of AADT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- H Historical Estimate
- M Manual Uncounted Estimate
- N AADT of Similar Neighboring Traffic Link
- O Provided By External Source
- R Raw Traffic Count, Unfactored

**4Tire:** Percentage of the traffic volume made up of motorcycles, passenger cars, vans and pickup trucks.

**Bus:** Percentage of the traffic volume made up of busses.

**2Axle Truck:** Percentage of the traffic volume made up of 2 axle single unit trucks (not including pickups and vans).

**3+Axle Truck:** Percentage of the traffic volume made up of single unit trucks with three or more axles.

**1Trail Truck:** Percentage of the traffic volume made up of units with a single trailer.

**2Trail Truck:** Percentage of the traffic volume made up of units with more than one trailer.

### QC: Quality of Classification Data:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- C Short Term Classified Traffic Count Data
- F Factored Short Term Traffic Count Data
- H Historical Estimate
- M Mass Collective Average
- N Classification Estimates of Similar Neighboring Traffic Link

**Peak Hour:** The estimate of the traffic volume for the 30<sup>th</sup> highest traffic volume occurring in a one-year period divided by the AADT for the same one-year period.

**QK:** Quality of the Peak Hour estimate:

- A Factor based on 30th Highest Hour Observed During 12 Months of Continuous Traffic Data
- B Factor based on 30th Highest Hour Observed During Less than 12 Months of Continuous Traffic Data
- F Factor based on Highest Hour Collected at in a 48 Hour Weekday Period
- M Factor based on Manual Estimate of 30th Highest Hour
- N Peak Hour Factor of Similar Neighboring Traffic Link
- O Provided by External Source

**Dir Factor:** The estimate of the portion of the traffic volume traveling in the peak direction during the Peak Hour..

**AAWDT:** Average Annual Weekday Traffic. The estimate of typical traffic over the period of one year for the days between Monday through Thursday inclusive.





**QW:** Quality of AAWDT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- M Manual Uncounted Estimate
- N AAWDT of Similar Neighboring Traffic Link
- O Provided by External Source





**Year:** Year for which the published values are appropriate. If the Quality of AADT (QA) is "R", the year is the year that the raw traffic count was collected, and if available,

## Route Shield Legend

### Route Systems

North 	Interstate Route	Traffic volume data for Interstate Routes and some other routes are reported separately by direction, as well as combined.
	US Route	
	Virginia State Route	
	Secondary Route	

### Special Routes

Bus 	Bus - Business Route
	Bypas - Bypass Route
	Truck - Truck Route
ALT 	ALT - Alternate Route
	Wve - Wye Route connector
	P - Parallel Route; Southbound or Westbound direction lanes of a numbered route where they are on a different road facility than the other direction.
	The VDOT Maintenance Jurisdiction number is displayed below the Secondary Route Number if the Maintenance Jurisdiction is different than the jurisdiction in the title of the report.

Virginia Department of Transportation  
Mobility Management Division  
2002  
Annual Average Daily Traffic Volume Estimates By Section of Route  
City of Salem

Route		Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Year
							2Axle	3+Axle	1Trail	2Trail							
City of Salem																	
11	West Main St	1.12	19000	G	From:	WCL Salem					F	0.084	F	0.535	20000	G	2002
					To:	SR 112											
11	West Main St	1.31	25000	G	From:	SR 112					F	0.082	F	0.538	27000	G	2002
					To:	ALT US 460, 4th St											
11	West Main St	0.60	29000	G	From:	ALT US 460, 4th St					F	0.083	F	0.523	32000	G	2002
					To:	Academy St											
11	West Main St	0.35	15000	G	From:	Academy St					F	0.088	F	0.584	16000	G	2002
					To:	College Ave											
11	College Ave	0.26	2700	G	From:	US 460, Main St					F	0.101	F	0.617	2900	G	2002
					To:	SR 311, Thompson Memorial Dr											
11	College Ave	0.48	5600	G	From:	SR 311, Thompson Memorial Dr					F	0.087	F	0.669	6200	G	2002
					To:	Colorado St											
11	Colorado St	0.51	17000	G	From:	Colorado St					F	0.09	F	0.591	19000	G	2002
					To:	Apperson Dr											
11	Apperson Dr	0.98	20000	G	From:	Colorado St					F	0.083	F	0.546	22000	G	2002
					To:	SR 419 Electric Rd											
11	Apperson Dr	1.04	14000	G	From:	SR 419 Electric Rd					F	0.083	F	0.502	16000	G	2002
					To:	WCL Roanoke											
ALT 11	ALT 460 4th St	0.40	18000	G	From:	W Main St					F	0.087	F	0.557	19000	G	2002
					To:	Elm St											
ALT 11	ALT 460 4th St	0.37	19000	G	From:	Elm St					C	0.085	F	0.511	20000	G	2002
					To:	Union St											
ALT 11	ALT 460 4th St	0.29	17000	G	From:	Union St					F	0.078	F	0.517	18000	G	2002
					To:	Colorado St											
ALT 11	ALT 460 4th St	0.28	9100	G	From:	Colorado St					F	0.081	F	0.503	9500	G	2002
					To:	Roanoke Blvd											
ALT 11	ALT 460 Texas St	0.31	9900	G	From:	Roanoke Blvd					C	0.086	F	0.536	10000	G	2002
					To:	Idaho St											
ALT 11	ALT 460 Texas St	0.61	6100	G	From:	Idaho St					C	0.081	F	0.694	6400	G	2002
					To:	Lynchburg Tnpk											
ALT 11	ALT 460 Texas St	0.24	2100	G	From:	Lynchburg Tnpk					F	0.095	F	0.948	2200	G	2002
					To:	Electric Rd											
ALT 11	ALT 460 Electric Rd	0.53	19000	G	From:	Texas St					F	0.084	F	0.569	20000	G	2002
					To:	E Main St											
ALT 11	ALT 460 E Main St	0.44	18000	G	From:	SR 419 Electric Rd					F	0.085	F	0.515	19000	G	2002
					To:	WCL Roanoke											
North 81		0.20	25000	G	From:	SCL Salem					F	0.07	F		26000	G	2002
					To:	SR 112 Wildwood Rd											
North 81		0.22	31000	G	From:	SR 112 Wildwood Rd					F	0.074	F		31000	G	2002
					To:	NCL Salem											
	Combined Traffic:		64000	G	From:	NCL Salem					F	0.074	F		64000	G	
					To:												

Virginia Department of Transportation  
Mobility Management Division  
2002  
Annual Average Daily Traffic Volume Estimates By Section of Route  
City of Salem

Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Year	
						2Axle	3+Axle	1Trail	2Trail								
City of Salem																	
South 81				From:	SCL Salem												
	0.28	26000	G	70%	1%	2%	1%	25%	2%	F	0.084	F		26000	G	2002	
	Combined Traffic:	51000	G	69%	1%	2%	1%	26%	2%	F	0.07	F		51000	G		
South 81				To:	SR 112 Wildwood Rd												
	0.14	33000	G	70%	1%	2%	1%	25%	2%	F	0.074	F		33000	G	2002	
	Combined Traffic:	64000	G	69%	1%	2%	1%	26%	2%	F	0.074	F		64000	G		
112				To:	NCL Salem												
	Wildwood Rd	0.44	14000	G	From:	US 11, US 460 Main St											
					To:	NCL Salem											
311				From:	College Ave												
	Thompson Memorial Dr	0.17	7500	G	96%	0%	2%	1%	1%	F	0.101	F	0.596	7900	G	2002	
	Thompson Memorial Dr	0.94	11000	G	To:	Main St											
From:					Hawthorne Rd												
311				From:	Hawthorne Rd												
	Thompson Memorial Dr	0.55	11000	G	96%	0%	2%	1%	1%	F	0.101	F	0.571	11000	G	2002	
				To:	NCL Salem												
419				From:	SCL Salem												
	Electric Rd	0.69	33000	G	98%	0%	1%	0%	1%	F	0.085	F	0.501	33000	G	2002	
	Electric Rd	0.58	29000	G	To:	US 11 Apperson Dr											
From:					Roanoke Boulevard												
419				From:	Roanoke Boulevard												
	Electric Rd	0.89	20000	G	94%	0%	2%	1%	2%	C	0.084	F	0.622	20000	G	2002	
				To:	ALT US 460 Texas St												
ALT 460				From:	ALT US 460 Texas St												
	Electric Rd	0.53	19000	G	93%	0%	2%	2%	2%	F	0.084	F	0.569	20000	G	2002	
	Electric Rd	0.88	14000	G	To:	US 460 East Main St											
From:					NCL Salem												
460	11	West Main St	1.12	19000	G	From:	WCL Salem										
						To:	SR 112										
						From:	SR 112										
460	11	West Main St	1.31	25000	G	From:	SR 112										
						To:	ALT US 460, 4th St										
						From:	ALT US 460, 4th St										
460	11	West Main St	0.60	29000	G	From:	ALT US 460, 4th St										
						To:	Academy St										
						From:	Academy St										
460	11	West Main St	0.35	15000	G	From:	Academy St										
						To:	US 11 College Ave										
						From:	US 11 College Ave										
460	Main St	0.11	22000	G	From:	US 11 College Ave											
					To:	SR 311 Thompson Memorial Dr											
					From:	SR 311 Thompson Memorial Dr											
460	E Main St	0.29	14000	G	From:	SR 311 Thompson Memorial Dr											
					To:	Lynchburg Turnpike											
					From:	Lynchburg Turnpike											
460	E Main St	0.93	13000	G	From:	Lynchburg Turnpike											
					To:	Kessler Mill Rd											
					From:	Kessler Mill Rd											
460	E Main St	0.24	17000	G	From:	Kessler Mill Rd											
					To:	SR 419 Electric Rd											
					From:	SR 419 Electric Rd											
460	E Main St	0.44	18000	G	From:	SR 419 Electric Rd											
					To:	WCL Roanoke											
					From:	WCL Roanoke											
ALT 460	4th St	0.40	18000	G	From:	W Main St											
					To:	Elm St											
					From:	Elm St											
ALT 460	4th St	0.37	19000	G	From:	Elm St											
					To:	Union St											
					From:	Union St											

Virginia Department of Transportation  
Mobility Management Division  
2002  
Annual Average Daily Traffic Volume Estimates By Section of Route  
City of Salem

Route	Length	AADT	QA	4Tire	Bus	Truck				QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
City of Salem																
ALT 460 4th St	0.29	17000	G	From: 94%		Union St				F	0.078	F	0.517	18000	G	2002
ALT 460 4th St	0.28	9100	G	To: 95%		Colorado St				F	0.081	F	0.503	9500	G	2002
ALT 460 Texas St	0.31	9900	G	From: 95%		Roanoke Blvd				C	0.086	F	0.536	10000	G	2002
ALT 460 Texas St	0.61	6100	G	To: 93%		Idaho St				C	0.081	F	0.694	6400	G	2002
ALT 460 Texas St	0.24	2100	G	From: 93%		Lynchburg Tnpk				F	0.095	F	0.948	2200	G	2002
ALT 460 Electric Rd	0.53	19000	G	To: 93%		Electric Rd Texas St				F	0.084	F	0.569	20000	G	2002
				To: 93%		E Main St										
1 Market St	0.10	2900	G	From: 97%		Burwell St				C	0.089	F	0.587	3000	G	2002
				To: 97%		Main St										
2 Idaho St	0.18	3400	N	From: 97%		ALT US 460 Texas St				N	0.085	N	0.524	3600	N	2002
2 Idaho St	0.27	3400	G	To: 97%		Illinois Ave				F	0.085	F	0.524	3600	G	2002
				To: 97%		Lynchburg Tnpk										
3 King Street	0.07	NA		From: 97%		Front Ave					NA			NA		
				To: 97%		Colorado St										
4 Mill La	0.37	7100	G	From: 96%		W Riverside Dr				C	0.092	F	0.571	7500	G	2002
				To: 96%		W Main St										
8002 Riverside Dr	0.40	4600	G	From: 98%		WCL Salem				F	0.103	F	0.589	4800	G	2002
				To: 98%		Mill Rd										
8002 Riverside Dr	0.93	5500	G	From: 98%		Mill Ln					0.106	F	0.524	5800	G	2002
				To: 98%		Twelve OClock Knob Rd										
8002 Riverside Dr	0.25	5500	G	From: 98%							0.101	F	0.608	5800	G	2002
				To: 98%		Mulberry St										
8002 Riverside Dr	0.87	NA		From: 98%							NA			NA		
				To: 98%		US 11										
8004 Colorado St	0.29	2500	G	From: 98%		Roanoke Blvd				C	0.108	F	0.697	2600	G	2002
				To: 98%		4Th St										
8004 Colorado St	0.52	13000	G	From: 98%		Sinclair Bridge				F	0.088	F	0.558	13000	G	2002
				To: 98%		129-8006 South Market Street										
8004 Burwell Street	0.11	NA		From: 98%							NA			NA		
				To: 98%		Broad Street										
8006 Roanoke Blvd	0.48	3100	G	From: 98%		Burwell St				F	0.093	F	0.611	3300	G	2002
				To: 98%		4Th St										
8008 Lynchburg Tnpk	0.17	3600	G	From: 98%		Main St				F	0.082	F	0.569	3700	G	2002
				To: 98%		Idaho St										
8008 Lynchburg Salem Tnpk	0.67	1300	G	From: 98%		Texas St				F	0.103	F	0.578	1400	G	2002
				To: 98%												

Virginia Department of Transportation  
Mobility Management Division  
2002  
Annual Average Daily Traffic Volume Estimates By Section of Route  
City of Salem

Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Year
2Axle 3+Axle 1Trail 2Trail																
City of Salem																
(8008) Lynchburg Tnpk	0.25	5900	G	From:	Texas St				F	0.097	F	0.699	6200	G	2002	
				To:	Electric Rd											
(8008) Lynchburg Salem Tnpk	0.44	6500	G	From:	ECL Salem				C	0.087	F	0.576	6800	G	2002	
				To:	Texas St											
(8010) Roanoke Blvd	0.41	7800	G	From:	Pearl St				F	0.1	F	0.533	8200	G	2002	
				To:	Electric Rd											
(8010) Roanoke Blvd	0.30	9500	G	From:	ECL Salem				C	0.104	F	0.502	10000	G	2002	
				To:	Texas St											
(8010) Roanoke Blvd	1.30	13000	G	From:	Electric Rd				F	0.102	F	0.538	13000	G	2002	
				To:	ECL Salem											
(8018) Dalewood Ave	0.55	3500	G	From:	Main St				F	0.108	F	0.635	3700	G	2002	
				To:	Greenridge Rd											
(8018) Green Ridge Rd	0.19	4600	G	From:	Dalewood Ave				F	0.104	F	0.574	4800	G	2002	
				To:	NCL Salem											
(8037) Twelve O'Clock Knob R	0.98	1200	G	From:	SCL Salem				F	0.095	F	0.676	1300	G	2002	
				To:	Riverside Dr											
(8047) Diuguids La	0.09	5000	G	From:	SCL Salem				F	0.113	F	0.665	5200	G	2002	
				To:	US 11; 460											
(8051) Eddy Ave	0.18	3900	G	From:	Piedmont St				F	0.116	F	0.623	4100	G	2002	
				To:	Union St											
(8051) Union St	0.69	1700	G	From:	Eddy St				C	0.102	F	0.544	1800	G	2002	
				To:	W Main St											
(8051) Academy St	0.64	1700	G	From:	Carrollton Ave				F	0.087	F	0.554	1800	G	2002	
				To:	I-81											
(8051) Academy St	0.51	1500	G	From:	Main St				F	0.103	F	0.642	1600	G	2002	
				To:	NCL Salem											
(8059) Goodwin Ave	0.72	1700	G	From:	Main St				F	0.095	F	0.611	1800	G	2002	
				To:	NCL Salem											
(8065) Kessler Mill Rd	1.65	3000	G	From:	Main St				C	0.088	F	0.550	3200	G	2002	
				To:	NCL Salem											
3rd St		300	G	From:	College Ave					0.162	F		310	G	2002	
				To:	Roanoke Blvd											
6th St		660	G	From:	Tennessee St					0.197	F		700	G	2002	
				To:	College Ave											
8th St		4400	G	From:	Delaware St					0.097	F		4600	G	2002	
				To:	Florida St											
Bonavista Rd		100	G	From:	Valledale Rd					0.119	F		110	G	2002	
				To:	Ft Lewis Blvd											
Burwell St		1200	G	From:	Shanks St					0.101	F		1200	G	2002	
				To:	Chestnut St											

Virginia Department of Transportation  
Mobility Management Division  
2002  
Annual Average Daily Traffic Volume Estimates By Section of Route  
City of Salem

Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
Chapman St		330	G	From:	Burwell St					0.085	F		350	G	2002	
				To:	2nd St											
Fletcher St		290	G	From:	Gardner Dr					0.139	F		310	G	2002	
				To:	Howard Dr											
Goodwin Ave		830	G	From:	Logan St					0.091	F	0.651	880	G	2002	
				To:	NCL Salem											
Jackson Dr		550	G	From:	Randolph Ave					0.122	F		580	G	2002	
				To:	Kessling Ave											
Macon St		120	G	From:	Keesling Ave					0.096	F		120	G	2002	
				To:	Randolph Ave											
Pearl St.		150	G	From:	Carolina Ave					0.108	F		160	G	2002	
				To:	Missouri Ave											
Texas Hollow Rd		3000	G	From:	Valleydale Rd					0.099	F		3100	G	2002	
				To:	W Main St											
Virginia Ave		300	G	From:	Richfield Ave					0.102	F		310	G	2002	
				To:	Fairview Ave											